

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:993205 CAPLUS
 DN 141:425088
 TI Water-**repellent** unsaturated polyester compositions
 IN Uchida, Kazushige; Kurashiki, Toshio; Agari, Yasuyuki; Otsuka, Keiko
 PA Matsushita Electric Works, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004323602	A2	20041118	JP 2003-117595	20030422
PRAI	JP 2003-117595		20030422		

AB The invention relates to unsatd. polyester compns., useful for bathtubs, walls, artificial marbles, to give moldings having water-**repellent** surface layers with thickness $\geq 10 \mu\text{m}$. The compns. may further contain water-**repellent** macromonomers. Thus, a molding comprising a vinyl ester polymer (KF 47K-1), a macroazo initiator (VPS 1001), a monomeric initiator (Trigonox 121-50), and Me methacrylate showed water contact angle (JIS K 2396) before and after polishing 50- μm depth 104.9 and 92.8°, resp.

IT **794587-45-4P**
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (unsatd. polyester moldings having water-**repellent** surface layers manufactured from water-**repellent** macro initiators and macromonomers)

RN 794587-45-4 CAPLUS
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, polymer with α -[(3-aminopropyl)dimethylsilyl]- ω -[[[(3-aminopropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)], KF 47K1 and methyl 2-methyl-2-propenoate (9CI)
 (CA INDEX NAME)

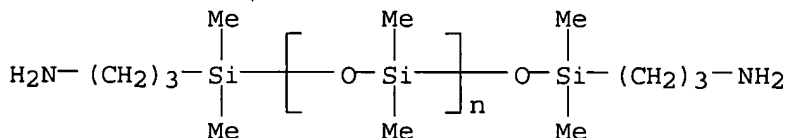
CM 1

CRN 793723-65-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

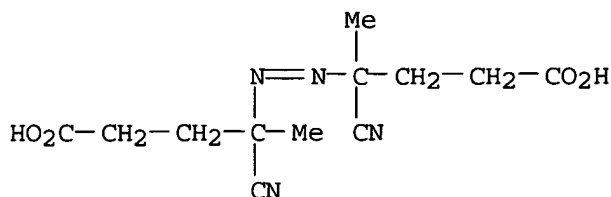
CM 2

CRN 97917-34-5
 CMF (C2 H6 O Si)_n C10 H28 N2 O Si2
 CCI PMS



CM 3

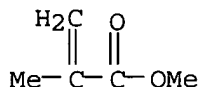
CRN 2638-94-0
 CMF C12 H16 N4 O4



CM 4

CRN 80-62-6

CMF C5 H8 O2



L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:993027 CAPLUS

DN 141:412526

TI Method and coating solutions for forming water-repellent films on automotive or building glasses

IN Kumon, Soichi; Hatanaka, Kaname; Akamatsu, Yoshinori; Hamaguchi, Shigeo; Kuramasu, Haruki; Arai, Hiroaki

PA Central Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004323250	A2	20041118	JP 2003-116153	20030421
PRAI	JP 2003-116153		20030421		

AB The films capable of sliding and dropping water droplets, are manufactured by adding water and acid catalysts to organic solvent solns. containing (1) R14-aSi(OR2)a (R1, R2 = hydrocarbyl; a = 3, 4), (2) (R3O)pMe3-pSiA1SiMe2(OSiMe2)nA2Si(OR4)qMe3-q (I; A1, A2 = hydrocarbylene, (CH2)iNHCO2, O; i = 0-9; R3, R4 = hydrocarbyl; n ≤ 2000; p, q = 0-3; p + q ≥ 3], and (3) B(CF2)rCH2CH2SiMe3-sXs (B = CF3, CH2CH2SiMe3-tYt; X, Y = hydrolyzable group; t = 1-3; r = 0-12; s = 1-3) to simultaneously hydrolyze and polycondense the 3 components to give precoating solns. The claimed coating solns. comprise the above 3 components, organic solvents, water, and acid catalysts and contain polycondensed products of the 3 components. Thus, a solution containing tetraethoxysilane, heptadecafluorodecyltrimethoxysilane, I (R3 = R4 = Me, p = q = 3, A1 = A2 = CH2CH2, n = 250) and HNO3 were stirred to give a polycondensed product-containing coating solution, which was applied on a glass plate, dried, heated, and cooled to give a transparent film showing contact angle 107°.

IT 792937-09-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(coating solns. containing alkoxysilanes, alkoxy-terminated di-Me silicones, and fluoroalkylsilanes for forming water-repellent films on automotive or building glasses)

RN 792937-09-8 CAPLUS

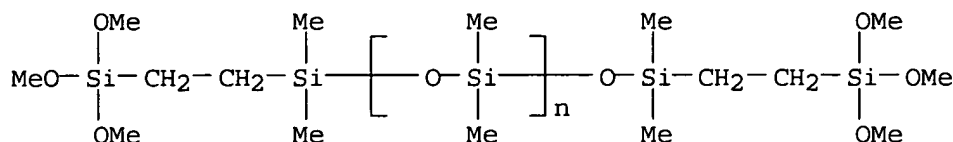
CN Silicic acid (H4SiO4), tetraethyl ester, polymer with α-[dimethyl[2-(trimethoxysilyl)ethyl]silyl]-ω-[[dimethyl[2-(trimethoxysilyl)ethyl]silyl]oxy]poly[oxy(dimethylsilylene)] and (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)trimethoxysilane (9CI) (CA INDEX NAME)

CM 1

CRN 160480-15-9

CMF (C2 H6 O Si)_n C14 H38 O7 Si4

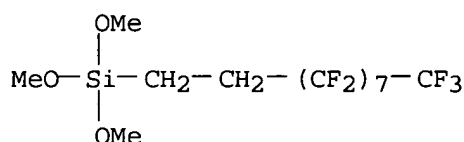
CCI PMS



CM 2

CRN 83048-65-1

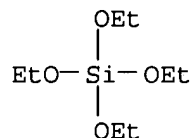
CMF C13 H13 F17 O3 Si



CM 3

CRN 78-10-4

CMF C8 H20 O4 Si



L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:819983 CAPLUS

DN 141:340377

TI Fluororesins and photosensitive compositions therewith having good ink repellency and developability

IN Takahashi, Hideyuki; Ishiseki, Kenji

PA Asahi Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004277494	A2	20041007	JP 2003-68216	20030313
PRAI	JP 2003-68216		20030313		

AB The fluororesins have ≥ 2 (/group)-F-substituted $C \leq 20$ alkyls, (B) $(\text{SiR}_1\text{R}_2\text{O})_n\text{SiR}_1\text{R}_2\text{R}_3$ [$\text{R}_1, \text{R}_2 = \text{H}, (\text{cyclo})\text{alkyl}, \text{aryl}; \text{R}_3 = \text{H}, \text{C1-10 organic group}; n = 1\text{-}200 \text{ integer}$], and acidic groups and satisfy acid value 5-300 mg-KOH/g. Compns. of the fluororesins, photoacid generators, and crosslinking agents bearing two or more groups reactive with the acidic groups of the fluororesins, are also claimed. Compns. of the fluororesins, radical photopolymerization initiators, and compds. bearing ≥ 2 ethylenic double bonds and free from acidic groups, are further claimed. These compns. provide fine patterns on ink-jet printers and are

useful for circuit-fabricating masks.

IT 769937-09-9P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photosensitive resin compns. containing polysiloxanyl-bearing fluororesins and showing good developability and ink **repellency**)

RN 769937-09-9 CAPLUS

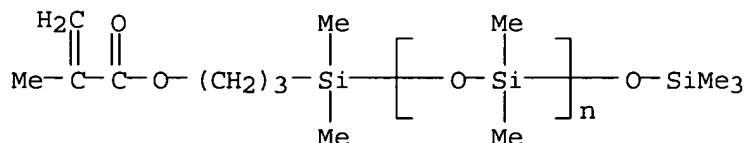
CN 2-Propenoic acid, 2-methyl-, polymer with cyclohexyl 2-methyl-2-propenoate, α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl)silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)] and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

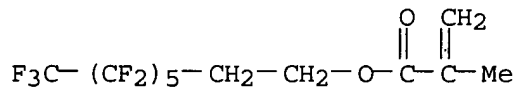
CCI PMS



CM 2

CRN 2144-53-8

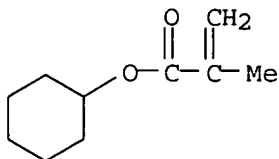
CMF C12 H9 F13 O2



CM 3

CRN 101-43-9

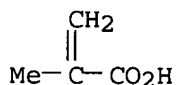
CMF C10 H16 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:890694 CAPLUS

DN 143:250975

TI Polymer electrolyte compositions for fuel cells, compositions for fuel cell electrodes, and fuel cells

IN Owada, Satoshi; Kida, Masahiro

PA Aisin Seiki Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT. 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005228671	A2	20050825	JP 2004-37990	20040216
PRAI	JP 2004-37990		20040216		

AB The electrolyte compns. are block copolymers of vinyl monomers and dialkylsiloxanes and includes ion-exchangeable proton-conducting side chains derived from vinyl monomers. Preferably, the block copolymers having structures (CHXCR1Y)nZ(SiR2R3O)m (R1-3 = H, C1-4 alkyl; X = H, **carboxyl**; Y = **carboxyl**, Ph, cyano, hydrolyzed silyl; Z = SiR2R3O, CONH; n, m = integer; ≥1 of X, Y, and R1 contains proton-conducting group). Fuel cell electrode compns. consisting of the said electrolyte compns. containing redox catalyst powder and fuel cells containing the said electrolyte compns. or the electrode compns. are also claimed. The electrolytes have good balance of hydrophilic and hydrophobic structures.

IT 863322-48-9P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic-**polysiloxane** polyelectrolyte compns. for fuel cell electrolytes and fuel cell electrodes)

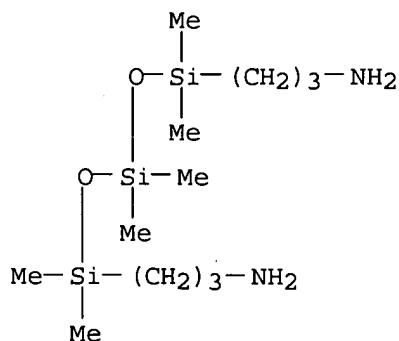
RN 863322-48-9 CAPLUS

CN Pentanoic acid, 4,4'-azobis[4-cyano-, polymer with 3,3'-(1,1,3,3,5,5-hexamethyl-1,5-trisiloxanediyl)bis[1-propanamine] and sodium ethenylbenzenesulfonate, block (9CI) (CA INDEX NAME)

CM 1

CRN 89467-59-4

CMF C12 H34 N2 O2 Si3

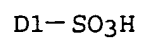
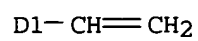


CM 2

CRN 27457-28-9

CMF C8 H8 O3 S . Na

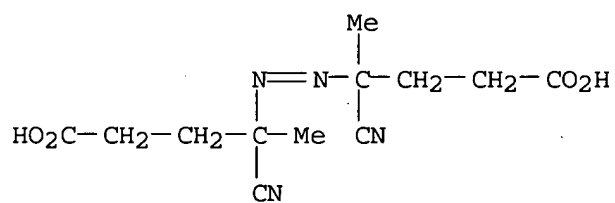
CCI IDS



CM 3

CRN 2638-94-0

CMF C12 H16 N4 O4



L15 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:490391 CAPLUS

DN 143:27344

TI Fluoropolymer-modified polysiloxanes useful as oil **repellents**

IN Hupfield, Peter Cheshire

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005052030	A1	20050609	WO 2004-US38481	20041112
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRAI GB 2003-27067 A 20031121

AB A polymeric product having oil **repellent** properties comprises an amino-functional **polysiloxane** (A) bonded through its amino groups to an addition copolymer (B) of (B1) a fluoro-substituted alkyl ester of an olefinically unsatd. carboxylic acid and (B2) an olefinically unsatd. monomer having a functional group capable of reacting with the amino groups of **polysiloxane** (A) and optionally (B3) one or more olefinically unsatd. co-monomers. The polymeric products are suitable for application to fibrous substrates such as textiles, **leather** and paper, to impart oil (oleophobicity) and water **repellent** (hydrophobicity) properties to the treated material.

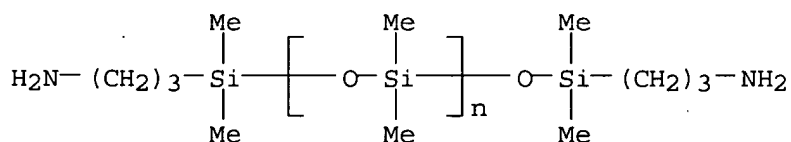
IT **97917-34-5DP**, reaction products with glycidyl-containing fluoroacrylate polymers

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(fluoropolymer-modified polysiloxanes useful as oil **repellents**)

RN 97917-34-5 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(3-aminopropyl)dimethylsilyl]- ω -[(3-aminopropyl)dimethylsilyl]oxy- (9CI) (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:654500 CAPLUS

DN 137:187158

TI Aqueous protective polishing agents for hard surfaces

IN Tanetani, Toshiyuki; Takishita, Katsuhisa

PA Ishihara Yakuhin Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

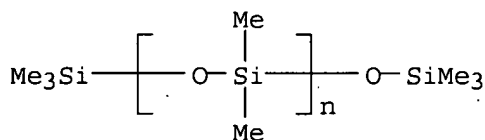
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002241705	A2	20020828	JP 2001-39148	20010215
PRAI	JP 2001-39148		20010215		
AB	Title agents comprise oily protective glossy components 5-50, surfactants 0.01-2, amphiphilic polymeric tackifiers 0.01-0.2, and UV absorbers 0.01-0.5% (preferably) and show a viscosity (VS) of 100-3,000 cSt. A composition comprising KF 96-350 10, KF 96-3000 10, Noigen ET 95 0.8, Noigen ES 0.01, Silwet FZ 2161 0.01, Pemulen TR 1 0.06, Uvinul MS 40 0.05, triethanolamine 0.06% with balanced amount of water showed VS 500 cSt, good emulsion condition at 50° for 1 mo, and good gloss, water repellency, and soil resistance at outdoor over 2 mo.				
IT	42557-10-8, KF 96-350 RL: TEM (Technical or engineered material use); USES (Uses) (aqueous polishes containing glossy components and UV absorbers and amphiphilic polymer tackifiers and surfactants for hard surfaces)				
RN	42557-10-8 CAPLUS				
CN	Poly[oxy(dimethylsilylene)], α -(trimethylsilyl)- ω -[(trimethylsilyl)oxy]- (9CI) (CA INDEX NAME)				



L15 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:776196 CAPLUS

DN 128:49415

TI Oil- and water-repellent F-containing polyurethanes, providing good laundry air-dry performance on fibrous substrates

IN Audenaert, Frans A.; Allewaert, Kathy E. M. L. A.; Hooftman, Gert; Nagase, Makoto; Lens, Hugo R.

PA Minnesota Mining and Manufacturing Company, USA

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9744375	A1	19971127	WO 1997-US8140	19970512
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2252902	AA	19971127	CA 1997-2252902	19970512
	AU 9730665	A1	19971209	AU 1997-30665	19970512
	EP 898588	A1	19990303	EP 1997-925563	19970512
	EP 898588	B1	20010627		
	R: BE, CH, DE, FR, GB, LI, NL				
	CN 1218483	A	19990602	CN 1997-194670	19970512
	CN 1136246	B	20040128		
	US 5910557	A	19990608	US 1997-855803	19970512
	BR 9709001	A	19990803	BR 1997-9001	19970512
	JP 2000511574	T2	20000905	JP 1997-542507	19970512
	KR 2000011010	A	20000225	KR 1998-709160	19981113
PRAI	EP 1996-107909	A	19960517		
	WO 1997-US8140	W	19970512		
AB	F-containing polyurethanes with the title properties are manufactured by reaction				

of (a) di-, tri-, or tetravalent isocyanates or their combinations, (b) ≥ 1 difunctional chain extender, (c) ≥ 1 blocking group, and a fluorooligomer that is reactive the free NCO groups and is prepared by oligomerization of unsatd. fluorocompds. and optionally F-free unsatd. compds. in the presence of ≥ 1 functionalized chain-transfer agent.

A typical F-containing polyurethane is manufactured by polymerization of 3 parts PAPI with 2 parts Arcol P1004 (polypropylene glycol) in the presence of 3 parts Me Et ketoxime and 2 parts oligomer prepared by polymerization of N-methylperfluorooctanesulfonamidoethyl acrylate in the presence of 2-mercaptoethanol at a 4:1 ratio, resp.

IT 199856-43-4DP, reaction products with mercaptoethanol-fluoroacrylic polymer adducts and NCO-reactive blocking agents
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (oil- and water-repellent F-containing polyurethanes, providing good laundry air-dry performance on fibrous substrates)

RN 199856-43-4 CAPLUS

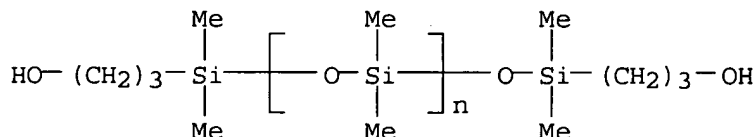
CN Isocyanic acid, polymethylenepolyphenylene ester, polymer with α -[(3-hydroxypropyl)dimethylsilyl]- ω -[[[(3-hydroxypropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)]] (9CI) (CA INDEX NAME)

CM 1

CRN 58130-02-2

CMF (C2 H6 O Si)_n C10 H26 O3 Si2

CCI PMS



CM 2

CRN 9016-87-9

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L15 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:746132 CAPLUS

DN 123:172559

TI High-performance oil- and water-**repellent** compositions, its use and substrates treated by

IN Coppens, Dirk M.; Allewaert, Kathy Emilie Augusta

PA Minnesota Mining and Manufacturing Co., USA

SO Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 648890	A1	19950419	EP 1993-116871	19931019
	EP 648890	B1	19961211		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CA 2133173	AA	19950420	CA 1994-2133173	19940928
	JP 07216347	A2	19950815	JP 1994-245058	19941011
	US 5536304	A	19960716	US 1994-323381	19941014
PRAI	EP 1993-116871	A	19931019		

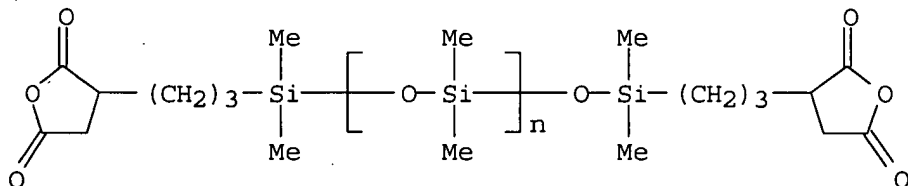
AB Title composition comprises a fluoroaliph. radical-containing agent and a cyclic carboxylic anhydride-containing **polysiloxane**. Addnl., the composition may comprise an extender and/or a plasticizer. The composition provides water- and oil **repellent** properties and a soft hand to fibrous and other substrates using a simple 1-step treatment. A blend of a succinic anhydride-terminated di-Me **siloxane** and a poly(fluoroalkyl methacrylate) was applied to cotton by solvent padding and dried to give a fabric with oil **repellency** rating 2, spray rating 90, and hand 4 (higher value correlates with softer feel), compared to 0, 50, and 2, resp., when di-Me **siloxane** was incorporated instead of the succinic anhydride-terminated di-Me **siloxane**.

IT **161205-23-8**

RL: TEM (Technical or engineered material use); USES (Uses)
(in high-performance oil- and water-**repellent** compns.)

RN 161205-23-8 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyl]- ω -[[dimethyl[3-(tetrahydro-2,5-dioxo-3-furanyl)propyl]silyl]oxy]- (9CI) (CA INDEX NAME)



L15 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:266998 CAPLUS

DN 122:163427

TI Polysiloxanes with fluoroaliphatic- and carboxyl-containing terminal groups, their manufacture and use in the treatment of fibrous substrates and **leather**

PA Minnesota Mining and Manufacturing Co., USA

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

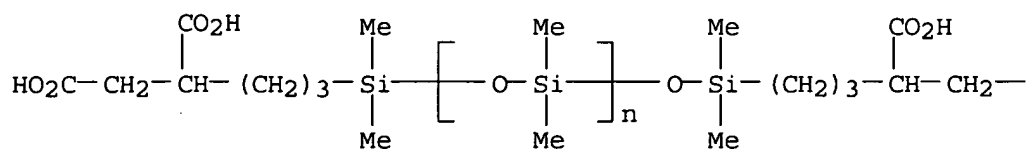
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4240274	A1	19940609	DE 1992-4240274	19921201
	DE 4240274	B4	20040212		
	DE 4244951	C2	19980806	DE 1992-4244951	19921201

PAGE 1-A



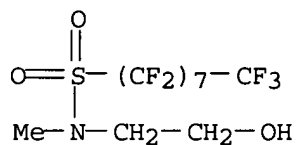
PAGE 1-B

—CO₂H

CM 2

CRN 24448-09-7

CMF C11 H8 F17 N O3 S



RN 161238-85-3 CAPLUS

CN Poly[oxy(dimethylsilylene)], α-[(4,5-dicarboxypentyl)dimethylsilyl]-
ω-[[[(4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω-
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-
heneicosafuorododecyl) ester, diammonium salt (9CI) (CA INDEX NAME)

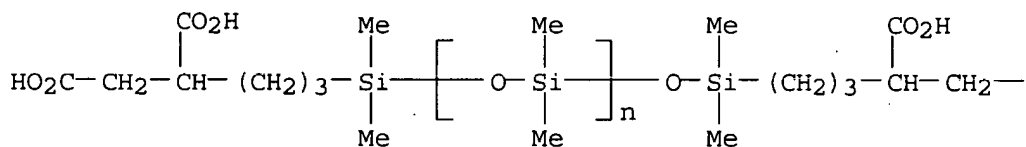
CM 1

CRN 161238-83-1

CMF (C2 H6 O Si)_n C18 H34 O9 Si2

CCI PMS

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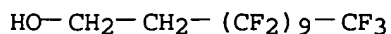
PAGE 1-B

—CO₂H

CM 2

CRN 865-86-1

CMF C12 H5 F21 O



RN 161238-86-4 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[4,5-dicarboxypentyl]dimethylsilyl]-
 ω -[[[4,5-dicarboxypentyl]dimethylsilyl]oxy]-, α,ω -bis[1-(chloromethyl)-2-[2-[[heptadecafluorooctyl]sulfonyl]methylamino]ethoxy]ethyl ester, diammonium salt (9CI) (CA INDEX NAME)

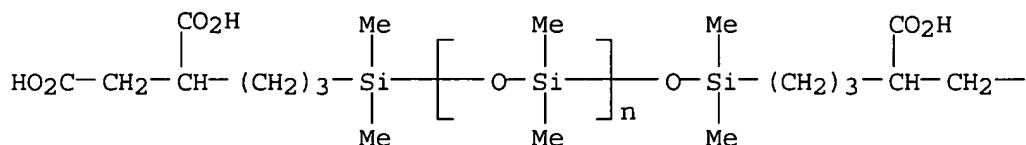
CM 1

CRN 161238-83-1

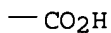
CMF (C2 H6 O Si)_n C18 H34 O9 Si2

CCI PMS

PAGE 1-A



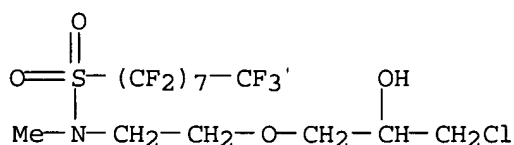
PAGE 1-B



CM 2

CRN 100997-35-1

CMF C14 H13 Cl F17 N O4 S



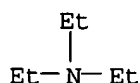
RN 161238-88-6 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[4(or 5)-carboxy-5(or 4)-[[[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]amino]carbonyl]pentyl]dimethylsilyl]- ω -[[[4(or 5)-carboxy-5(or 4)-[[[2-[ethyl[(heptadecafluorooctyl)sulfonyl]amino]ethyl]amino]carbonyl]pentyl]dimethylsilyl]oxy]-, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8

CMF C6 H15 N



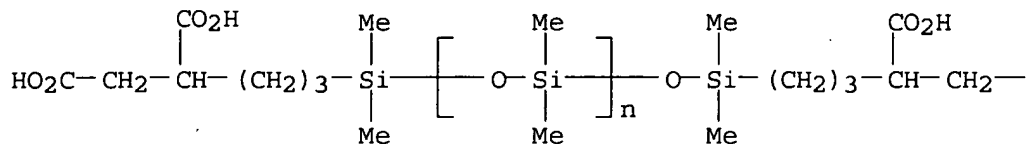
CM 2

CRN 161238-87-5
 CMF (C2 H6 O Si)n C42 H52 F34 N4 O11 S2 Si2
 CCI IDS, PMS

CM 3

CRN 161238-83-1
 CMF (C2 H6 O Si)n C18 H34 O9 Si2
 CCI PMS

PAGE 1-A

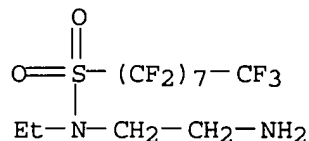


PAGE 1-B

—CO₂H

CM 4

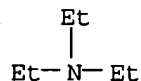
CRN 13406-91-2
 CMF C12 H11 F17 N2 O2 S



RN 161238-90-0 CAPLUS
 CN Poly[oxy(dimethylsilylene)], α-[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω-[(4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω-
 diester with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-
 heneicosafuoro-1-dodecanethiol, compd. with N,N-diethylethanamine (2:1)
 (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
 CMF C6 H15 N



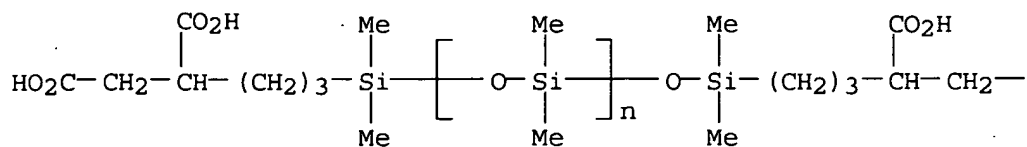
CM 2

CRN 161238-89-7
 CMF (C2 H6 O Si)n C42 H40 F42 O7 S2 Si2
 CCI IDS, PMS

CM 3

CRN 161238-83-1
 CMF (C2 H6 O Si)_n C18 H34 O9 Si2
 CCI PMS

PAGE 1-A

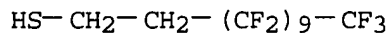


PAGE 1-B

—CO₂H

CM 4

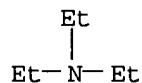
CRN 34451-28-0
 CMF C12 H5 F21 S



RN 161344-02-1 CAPLUS
 CN Poly[oxy(dimethylsilylene)], α-[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω-[[[(4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω-bis[2-
 [[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl] ester, compd. with
 N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
 CMF C6 H15 N



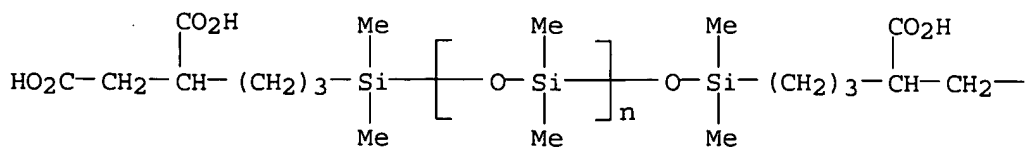
CM 2

CRN 161344-01-0
 CMF (C2 H6 O Si)_n C40 H46 F34 N2 O13 S2 Si2
 CCI IDS, PMS

CM 3

CRN 161238-83-1
 CMF (C2 H6 O Si)_n C18 H34 O9 Si2
 CCI PMS

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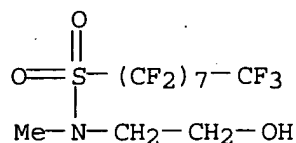


—CO₂H

CM 4

CRN 24448-09-7

CMF C11 H8 F17 N O3 S



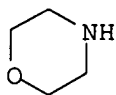
RN 161344-03-2 CAPLUS

CN Morpholine, compd. with α -[[[4,5-dicarboxypentyl]dimethylsilyl]-
 ω -[[[4,5-dicarboxypentyl]dimethylsilyl]oxy]poly[oxy(dimethylsilylene
)] α,ω -bis[2-[[[heptadecafluorooctyl)sulfonyl]methylamino]ethy
 l] ester (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 110-91-8

CMF C4 H9 N O



CM 2

CRN 161344-01-0

CMF (C2 H6 O Si)_n C40 H46 F34 N2 O13 S2 Si2

CCI IDS, PMS

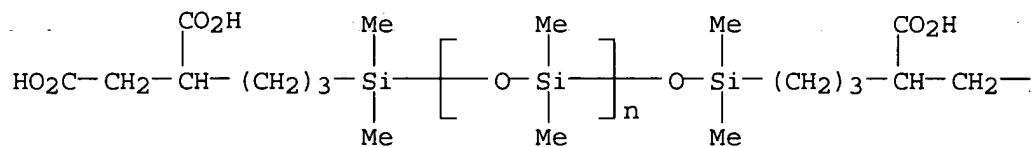
CM 3

CRN 161238-83-1

CMF (C2 H6 O Si)_n C18 H34 O9 Si2

CCI PMS

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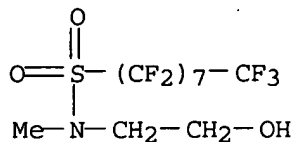
PAGE 1-B

—CO₂H

CM 4

CRN 24448-09-7

CMF C11 H8 F17 N O3 S



RN 161344-04-3 CAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4,5-dicarboxypentyl)dimethylsilyl]-
 ω -[[[(4,5-dicarboxypentyl)dimethylsilyl]oxy]-, α,ω -bis[2-
[[[(heptadecafluorooctyl)sulfonyl]methylamino]ethyl] ester, dipotassium
salt (9CI) (CA INDEX NAME)

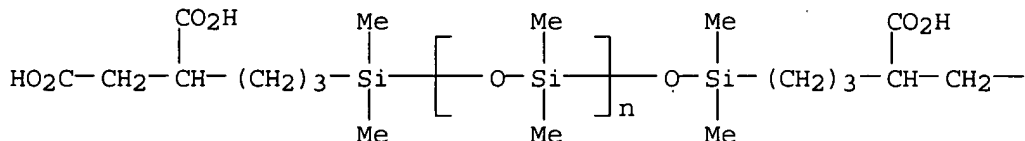
CM 1

CRN 161238-83-1

CMF (C2 H6 O Si)_n C18 H34 O9 Si2

CCI PMS

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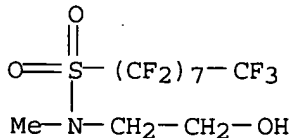
PAGE 1-B

—CO₂H

CM 2

CRN 24448-09-7

CMF C11 H8 F17 N O3 S



L15 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:69025 CAPLUS

DN 70:69025

TI Water **repellents** from silicon hydride polysiloxanes and silanes
having alkenyl radicals

IN Quaal, George J.

PA Dow Corning Corp.

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3423236	A	19690121	US 1964-402941	19641009
PRAI	US 1964-402941	A	19641009		

AB **Siloxane** copolymers (I) prepared from silicon hydride **siloxane** polymers and alkenyl-containing silanes were cured with an aminoorganosilicon compound I can be used as a water **repellent** for fabrics, paper, glass, **leather**, wood, or masonry products. Thus, a mixture of 60 g. trimethylsilyl-endblocked methylhydrogenpolysiloxane having a viscosity of 32.9 cs. at 25°, 180 g. H₂C:CHSiMe₂OSiMe₃ and 0.2 g. of a mixture of 1% Pt-C was heated to 180° and refluxed for 2.5 hrs. to give 73.7 mole % [OSiMeCH₂CH₂SiMe₂OSiMe₃] and apprx.26.3 mole % [MeSiHO], which had a viscosity of 3369 cs. at 25°. A solution of 3.5 g. of the **siloxane** copolymer, 120 ml. perchloroethylene and 0.3 g. (MeO)₃Si(CH₂)₃NHCH₂CH₂NH₂ was applied to tan sateen by dipping the fabric into the solution and then padding. The treated fabric was air dried and cured 3 min. at 176°. The treated fabric showed a spray rating of 100. The water **repellency** of the cured fabric was determined by using the spray rating test ASTM D-583-58 or the spray test of AATCC Standard Test Method 22-1961.

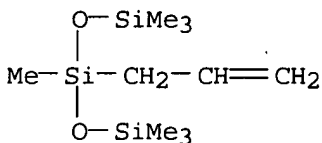
IT 7087-20-9

RL: USES (Uses)

(siloxanes from, for water **repellent** textiles)

RN 7087-20-9 CAPLUS

CN Trisiloxane, 1,1,1,3,5,5,5-heptamethyl-3-(2-propenyl) - (9CI) (CA INDEX NAME)



(FILE 'HOME' ENTERED AT 11:17:04 ON 30 OCT 2005)

FILE 'REGISTRY' ENTERED AT 11:20:20 ON 30 OCT 2005

L1 STRUCTURE UPLOADED

L2 50 S L1

L3 11023 S L1 FUL

FILE 'CAPLUS, CAOLD' ENTERED AT 11:21:17 ON 30 OCT 2005

L4 30 S L2

L5 10491 S L3

L6 0 S L4 AND LEATHER

L7 3 S L4 AND ?REPELLEN?

L8 0 S L4 AND WATERPROOF?

L9 24 S L4 AND ?SILOXANE

L10 1 S L9 AND CARBOXY?

L11 51 S L5 AND LEATHER

L12 6 S L11 AND ?REPELLEN?

L13 6 S L12 NOT L7

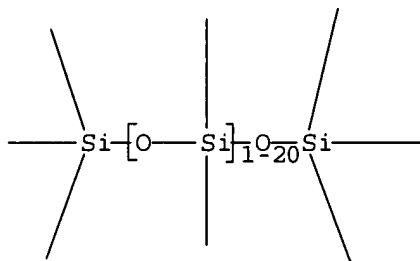
L14 6 S L13 NOT L10

L15 6 S L14 AND ?SILOXANE

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.